

Title (en)
DEVICE FOR ADMINISTERING SOLID PREPARATIONS

Publication
EP 0292936 A3 19910403 (EN)

Application
EP 88108328 A 19880525

Priority
• JP 7925987 U 19870526
• JP 12943987 A 19870526

Abstract (en)
[origin: EP0292936A2] A device for administering solid or semisolid preparations in an organism subcutaneously. The equipment comprises a barrel (3) having a nozzle (5) for attachment of a hollow needle (4), a plunger (2) slidably arranged in the barrel and is used in combination with a guide member (15) adapted to be snugly accommodated within the lumen of the barrel. The solid preparations (16) are generally housed in the guide member and/or needle and forced into the body subcutaneously through the needle.

IPC 1-7
A61M 37/04

IPC 8 full level
A61M 5/178 (2006.01); **A61M 31/00** (2006.01); **A61M 36/00** (2006.01); **A61M 37/00** (2006.01)

CPC (source: EP KR US)
A61M 5/178 (2013.01 - KR); **A61M 37/0069** (2013.01 - EP US)

Citation (search report)
• [A] US 4451253 A 19840529 - HARMAN SHERMAN M [US]
• [A] US 2009393 A 19350730 - GIOACCHINO FAILLA
• [A] US 3921632 A 19751125 - BARDANI FRANK M
• [A] US 3153496 A 19641020 - JOHNSON ROYCE E
• [A] US 1881854 A 19321011 - JOSEPH MUIR

Cited by
US6993375B2; US7565191B2; EP1114618A3; EP1323450A1; US5484403A; US5695463A; EP0481566A1; US5251647A; US5776107A; EP1281416A3; EP1974686A3; EP1525856A3; US5542920A; US6117443A; US6120786A; US5582591A; US5616123A; EP1270032A1; EP1498150A1; US5660846A; US5837276A; US6142972A; EP0957971A4; US6896893B2; US6896670B2; US6306420B1; WO2008135074A1; WO9215362A1; WO0213738A1; WO9609849A1; WO2005092251A3; WO0100101A1; US9820824B2; US10463446B2; US9848956B2; US10813716B2; US7651505B2; US9861294B2; US7445612B2; US10064609B2; US10874381B2; US10342635B2; US10357328B2; US11278370B2; US6578580B2; US7237553B2; US10105125B2; US11246574B2; US9750487B2; US10172674B2; US10478161B2; US11426149B2; US6544545B1; US8142390B2; US9901415B2; US10682200B2; US11471244B2; US6862470B2; US7983734B2; US9649093B2; US9801688B2; US10258428B2; US11779431B2; US7255110B2; US6648849B2; US6546936B2; US6742524B2; US6971396B2; US7077143B2; US7077144B2; US6213983B1; US6725083B1; US7047063B2; US6347241B2; US6662041B2; US6996433B2; US10045832B2; US10299881B2; US10786604B2; US11833275B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0292936 A2 19881130; EP 0292936 A3 19910403; EP 0292936 B1 19960306; AT E134887 T1 19960315; CA 1296231 C 19920225; DE 3855054 D1 19960411; DE 3855054 T2 19960718; ES 2086291 T3 19960701; GR 3020002 T3 19960831; KR 880013585 A 19881221; KR 950008520 B1 19950731; US 4950234 A 19900821

DOCDB simple family (application)
EP 88108328 A 19880525; AT 88108328 T 19880525; CA 567616 A 19880525; DE 3855054 T 19880525; ES 88108328 T 19880525; GR 960401377 T 19960522; KR 880006213 A 19880526; US 19829088 A 19880525